

**PREVENTION OF CONTAMINATION IN OLEFIN PRODUCTION OR PURIFICATION PROCESS**

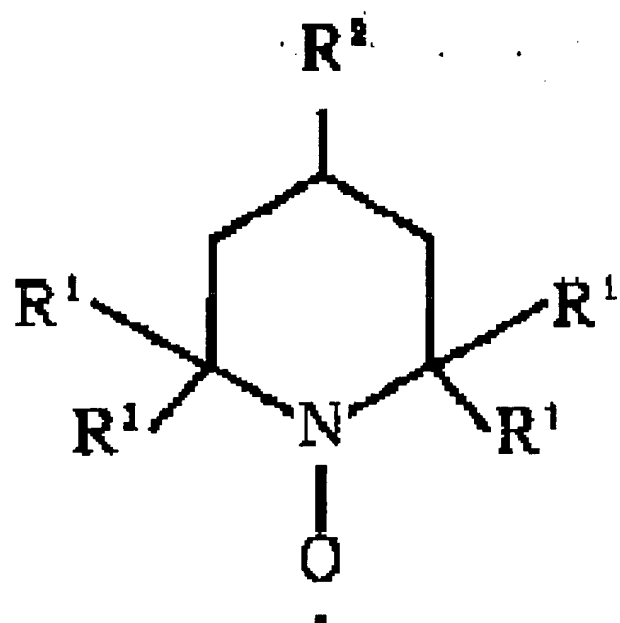
Patent Number: JP11043449  
Publication date: 1999-02-16  
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Requested Patent: JP11043449  
Application  
Number: JP19970203325 19970729  
Priority Number(s):  
IPC Classification: C07C11/18; C07C7/20; C07C11/167; C07C13/15; C10G9/00; C10G9/12; C10G29/20  
EC Classification:  
Equivalents: JP3187345B2

**Abstract**

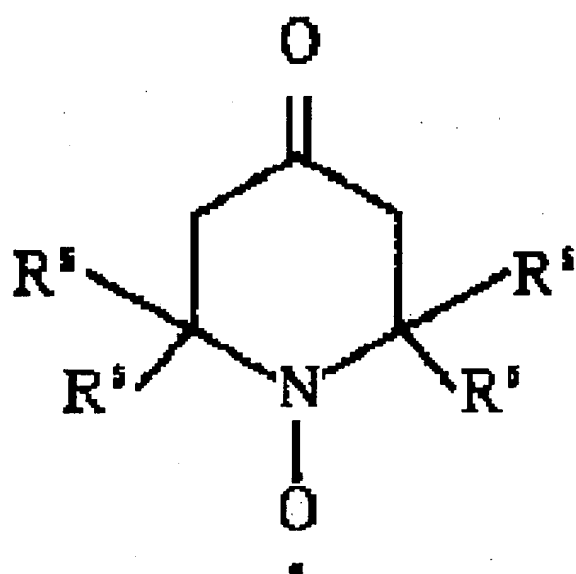
**PROBLEM TO BE SOLVED:** To provide a method for producing olefins, high in effect of preventing polymerization, excellent in effect of preventing contamination, and capable of operating continuously and stably for extended periods by reacting a stock oil incorporated with a piperidine-1-oxyl and N,N-di-substituted hydroxylamine.

**SOLUTION:** This method gives olefins by reacting a stock oil incorporated with a combination of (A) at least one type of piperidine-1-oxyl compound shown by formula I (R<1> is a 1-3C alkyl; and R<2> is H or the like) (preferably 2,2,6,6-tetramethylpiperidine-1-oxyl or the like) or formula II (R<5> is a 1-3C alkyl) (preferably 2,2,6,6-tetramethyl-4-oxopiperidine-1oxylpiperidine-1-oxyl), preferably at 1 to 10 wt.ppm based on the stock oil, and (B) at least one type of N,N-di- substituted hydroxylamine (preferably N,Ndiethylhydroxylamine or the like), preferably at 1 to 10 wt.ppm based on the stock oil.

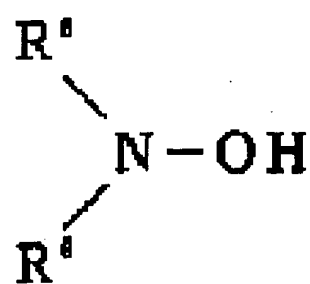
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I



II



III